to all vegetables. He observed that neither the odours of the fresh, dried, and burnt sponges, nor the presence of ammonia in them, afforded proofs of their animality, and that there really is no more peculiarity in their chemical composition than what likewise exists in that of certain plants.

Mr. Hogg therefore maintains it to be impossible to account the *Spongilla* as belonging to the vegetable kingdom and the *Spongia* to the animal; and since he has become sure of the former, and since the *Spongia* is now known to possess neither one organ nor a single property peculiar to an animal, he has been at length forced to acknowledge the vegetable nature of the *Spongia*.

Moreover, the fact of Dr. Grant having witnessed the locomotive sporules of some of the sea sponges germinating and developing themselves after the forms of their parent structures, at once decides that they cannot be the nidus or matrix, or the fabrication or production of any marine animal.

Lastly, Mr. Hogg, considering to what order of plants the freshwater and the sea sponges should be referred, proposed to classify them in a separate order "Spongiæ," which ought to be placed between the order Fungi and that of the Algæ.

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For the details of structure of these highly interesting Infusoria we must refer the reader to Ehrenberg's work, 'Ueber die Infusionsthierchen,', whence this extract is taken; and we may merely state that this illustrious naturalist succeeded in discovering nutritive organs, mouth, eyes, generative organs, &c.

DEVELOPMENT OF THE LEGUMINOSÆ.

Drs. Schleiden and Vogel draw from their interesting observations on the development of this large family of plants published in the 'Acta Acad. C. L. C. Nat. Cur.' vol. xix. p. 1. the following conclusions:

-1. The flowers of the $Leguminos \alpha$ are at their origin perfectly regular.

2. The subsequently cohering parts originate as free points, are developed free, and cohere subsequently.

3. All the parts of the flower are at their first appearance green leaves.

4. Even in the earliest stage only one carpellary leaf is visible in the Leguminos α , which is open in the direction of the axis.

5. The anthers are formed from leaves, the inner cellular tissue being converted in part into pollen; and the loculi originate at both sides of the margin of the leaf, which is subsequently changed into the bursting rima.

6. The ovules are formed alternately at the upper margin of the ovarium, and consist of the nucleus and generally of two integuments, rarely of an integumentum simplex.

7. The ovules of the Papilionaceæ are hemitropous.

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10. No endopleura tumida exists in the Leguminosæ; what has been considered as such is albumen, and in fact endosperm.

The authors have also discovered that the ovules of the genus Lupinus are only provided with a simple integument, while those of the other Leguminosæ always possess a double one.

ON THE STRUCTURE OF THE SCALES OF FISH AND REPTILES.

M. Mandl, in a memoir presented to the French Academy, states that the scales are composed of a superior and of an inferior layer. The upper layer is composed, a. of longitudinal canals, proceeding in the form of longitudinal lines, from a point which is not always the centre of the scale; b. of cellular lines, i. e. of lines in which he thought he perceived the margins of successive layers of increase, but which, according to his observations, were nothing more than lines produced by the union or fusion of cells; c. of yellow corpuscles analogous to the corpuscles of bones, and of cartilages containing salts like them; d. of a focus occupied by interrupted cellular lines, by imperfect cells and corpuscles, &c. : the focus appears to be the first rudiment of the scale; e. of the teeth of the scale, which exist only on the terminal margin in the Acanthopterygians and are wanting in the Malacopterygians.

The inferior layer is composed of fibrous lamellæ, of which the outer ones are the longest. The elements of the fibrous layers, which in hard scales frequently shine through the superior layer, may be isolated by rupture.

The author concludes from his observations that the scales cannot be regarded as simple products of secretion, but that a true organization must be admitted in them. M. Mandl also considers with M. Agassiz that the scales may serve as characters in classification. —*Comptes Rendus*, June 24, 1839.

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DISCOVERY OF MUMMIES AT DURANGO, MEXICO.

A million of mummies have lately been discovered near Durango, in Mexico. They are in a sitting posture, but have the same wrappings, bands, and ornaments as the Egyptians; among them was found a poignard of flint, with a sculptured handle, chaplets, necklaces, &c., of alternately coloured beads, fragments of bones polished like ivory, fine worked elastic tissues, moccasins worked like those of our Indians, bones of vipers, &c. A fact of importance is stated; that the necklaces are of a marine shell found at Zacatecas, on the Pacific, where the Columbus of their forefathers probably therefore landed from Hindostan or from the Malay, or Chinese coast, or from their islands in the Indian ocean.—Silliman's American Journal, April, 1839.

EXPERIMENTS ON THE OLFACTORY SENSE OF THE ANTENNÆ. BY M. A. LEFEBVRE.

The observations of the author were first made upon a bee which was feeding upon a piece of sugar. Having moistened a long needle with æther, he approached it gently to the sugar; but the extremity of the instrument had hardly come within a few lines of the insect when it showed great uneasiness, and did not cease agitating its antennæ whilst directing them towards the odorous body. The bee, on the contrary, was not at all affected when M. Lefebvre touched the piece of sugar with a needle which had not been dipped in æther, or with a match, &c. "After having given the insect some moments of rest," says the author, " I again plunged my needle into the æther, and, hoping to accustom it to this penetrating smell, I approached the needle softly to its anal extremity. The bee did not move, but continued eating. Encouraged by this success, I slid the point of my needle along the body against the feet, but without touching the stigmata; I even deposited a little drop of the liquid there, and I did all this without the bee's appearing in the least uneasy. My surprise was very great to see that the insect suffered nothing in the neighbourhood of the stigmata, but as soon as I sought to pass the fore feet, the antennæ, by being lowered, obstructed my progress.

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GEOGRAPHICAL DISTRIBUTION OF PALMS.

M. v. Martius has published an elaborate treatise on the geographical distribution of palms, which he divides into five groups, viz. Arecinæ, Lepidocaryinæ, Borassinæ, Coryphinæ, and Coccinæ. The distribution of the palms with which we are at present acquainted is as follows :

	Old World.	New World.	Total.
Arecinæ	53	45	98
Lepidocaryinæ	60	7	67
Borassinæ	11	24	35
Coryphinæ		24	57
Coccinæ	2	99	101
		-	
	159	199	358

Of these 358 palms Europe contains 1, New Holland 6, New Zealand 1, Oceania 2, Africa 13, Asia 131, and America 198.

METEOROLOGICAL OBSERVATIONS FOR JUNE, 1839.

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Sun shone out 26 days. Rain fell 10 days. Thunder 2 days. Wind southerly 12 days. Westerly 6 days. Easterly 6 days. Northerly 6 days.

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Therm ometer.	Chiswick.	Max.	11	104	99	72	71	64	202	12	20	81	81	64	63	73	75	84	0/0	202	299	65	20	74	72	70	54	51	50		68-30
The	Soc.	Min.	48.2	47.0	50.3	53.3	54.2	50.3	56.0	55.5	59.4	57-8	62-2	55.3	22.1	49-0	2.7.9	0.10	28.0	0.00	59-9	56.8	55.6	57.4	56.0	24.7	1.001	20.3	0.04		24-9
	1: Roy. Soc. Self-register	Max.	55.7	21.2	54.7			69.3							64.4					0.02							81.2	24.0	53.8	İ	70-2
	London: Roy.		55.2					60.3			64.7		72.0		58.4					2.70					63.4		01.3	53.7	53.3	Í	6.19
-		84 p.m.	30-03		29.67	29-83	29.80	29-63	29-72	20.03	30.17	30-07	30.05	30.02	30-13	30-25	30.11	29.92	00.00	26.67	00.67	20.42	29.74	29-80	29.64	29.72	29.89	30-17	30-20	1	29-87
	Dumfries-shire.	9 a.m. 8	1					29.63											60.67							29.72	29-77	30.05	30.19		29.86
er.	Boston.			C4-67						29.68					29.47				29.33									29.40	80.67.		29.36
Barometer.		Min.	29-927	270				29.393							29.929				010.05				797-97			29.745			001.02		29.831
	Chiswick.	Max.	29-969																			207.02	30-896						Coz.05	1	50-978
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